

PATENT COOPERATION TREATY

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INTERNATIONAL SEARCHING AUTHORITY

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

To:

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Date of mailing
(day/month/year) See Form PCT/ISA/210 (sheet 2)

Applicant's or agent's file reference
See Form PCT/ISA/220

FOR FURTHER ACTION

See paragraph 2 below

International application No.
PCT/DE2004/000224

International filing date (day/month/year)
09/02/2004

Priority date (day/month/year)
21/03/2003

International Patent Classification (IPC) or both national classification and IPC
G06F17/60, G06F1/00

Applicant

DEUTSCHE TELEKOM AG

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☒ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Express Mail No. EV321885985US
Attorney Docket No. 02345/224

Name and mailing address of the ISA/

Authorized officer

Facsimile No.

Telephone No.

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/DE2004/000224

Box No. II Priority

1. ☒ The following document has not yet been furnished:

☒ copy of the earlier application whose priority has been claimed (Rules 43*bis*.1 and 66.7(a)).

☐ translation of the earlier application whose priority has been claimed (Rules 43*bis*.1 and 66.7(b)).

Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.

2. ☐ This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43*bis*.1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.

3. Additional observations, if necessary:

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INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/DE2004/000224

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims		YES
	Claims	1, 8	NO
Inventive step (IS)	Claims		YES
	Claims	2-7, 9-14	NO
Industrial applicability (IA)	Claims	1-14	YES
	Claims		NO

2. Citations and explanations:

See Supplementary Page

INTERNATIONAL SEARCH REPORT

International Application No
PCT/DE2004/000224

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G06F17/60 G06F1/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2001/056533 A1 (KILIAN JOSEPH ET AL) 27 December 2001 (2001-12-27) page 1, paragraph 11 - page 2, paragraph 35; claims 1-4; figure 2	1-14
X	EP 0 915 600 A (HITACHI LTD) 12 May 1999 (1999-05-12) column 2, paragraph 11 - column 3, paragraph 22; claims 1,6; figures 14-20 column 13, paragraph 87 - column 16, paragraph 104	1-14
X	DE 198 24 787 A (PERE PAUL) 16 December 1999 (1999-12-16) the whole document	1,8
	-/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

23 July 2004

Date of mailing of the international search report

Express Mail No. EV321885985US

Attorney Docket No. 02345/224

18 AUG 2004

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/DE2004/000224

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>EP 1 134 644 A (IBM) 19 September 2001 (2001-09-19) column 8, paragraph 54 - column 9, paragraph 58; claim 1 -----</p>	1,8

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/DE2004/000224

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2001056533	A1	27-12-2001	EP 1168141 A2	02-01-2002
EP 0915600	A	12-05-1999	JP 11143840 A	28-05-1999
			DE 69816400 D1	21-08-2003
			DE 69816400 T2	09-06-2004
			EP 0915600 A2	12-05-1999
			US 6327658 B1	04-12-2001
DE 19824787	A	16-12-1999	DE 19824787 A1	16-12-1999
			CA 2333993 A1	09-12-1999
			WO 9963420 A1	09-12-1999
			EP 1084465 A1	21-03-2001
			JP 2002517812 T	18-06-2002
EP 1134644	A	19-09-2001	EP 1134644 A2	19-09-2001
			JP 2001306522 A	02-11-2001